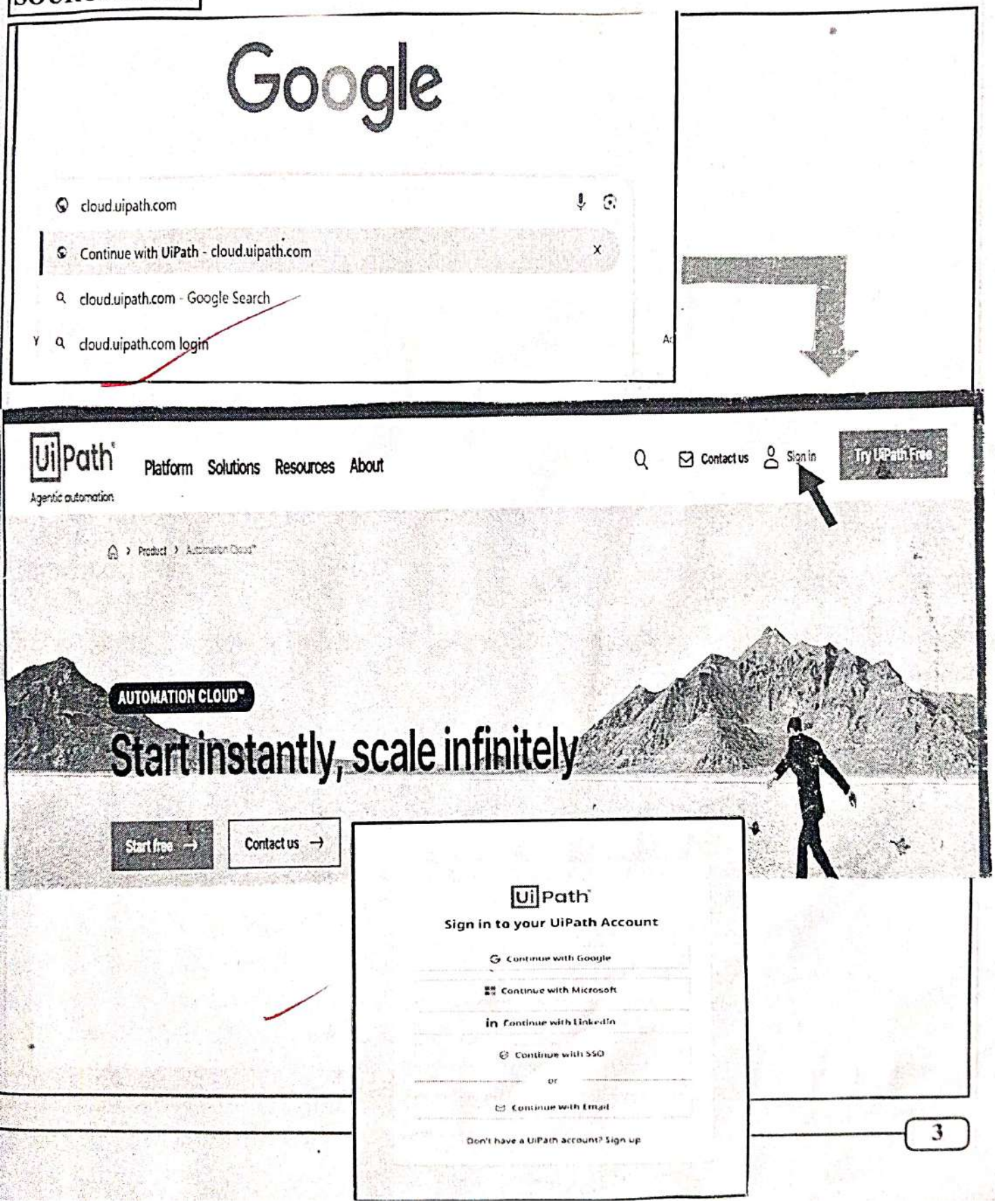
- Update or install any required packages for your projects.
- That's it! You've successfully installed UiPath Studio. You can now start creating, testing, and executing automation projects using UiPath

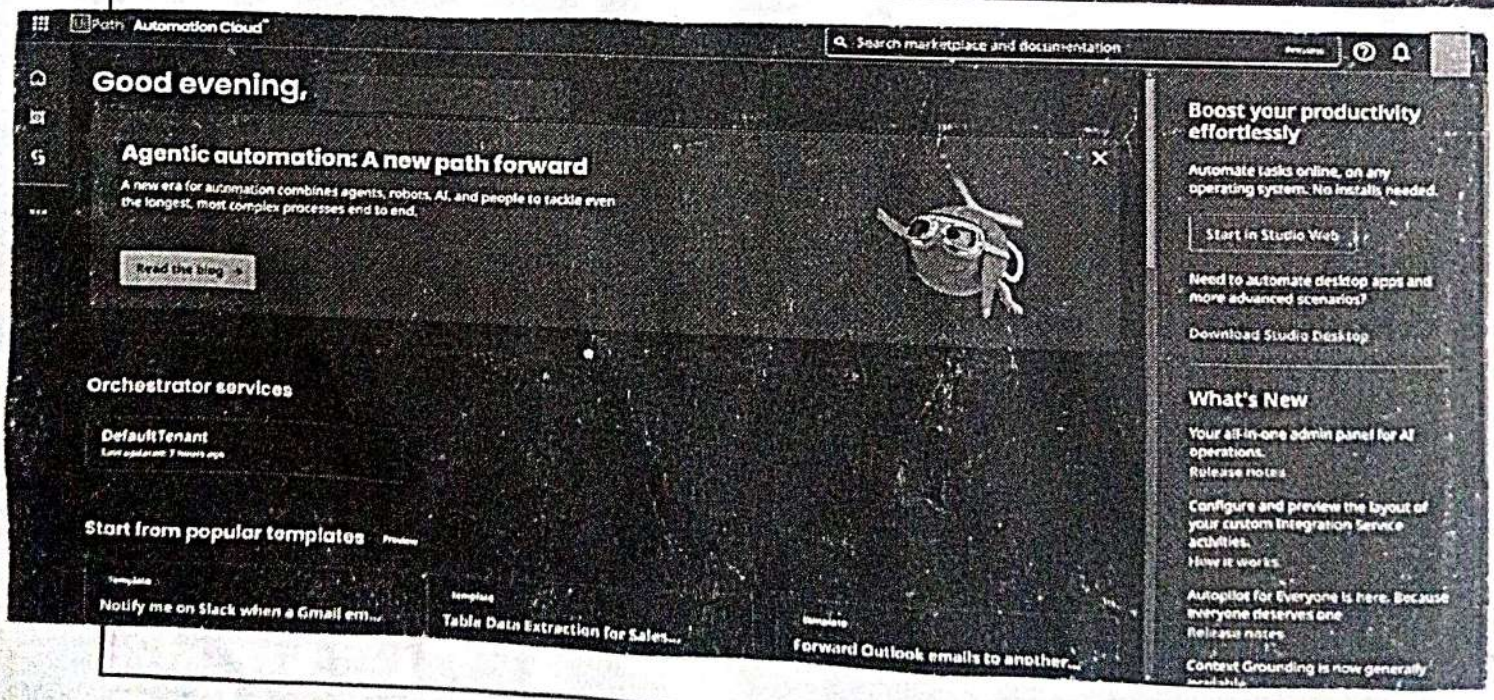
SOURCE CODE



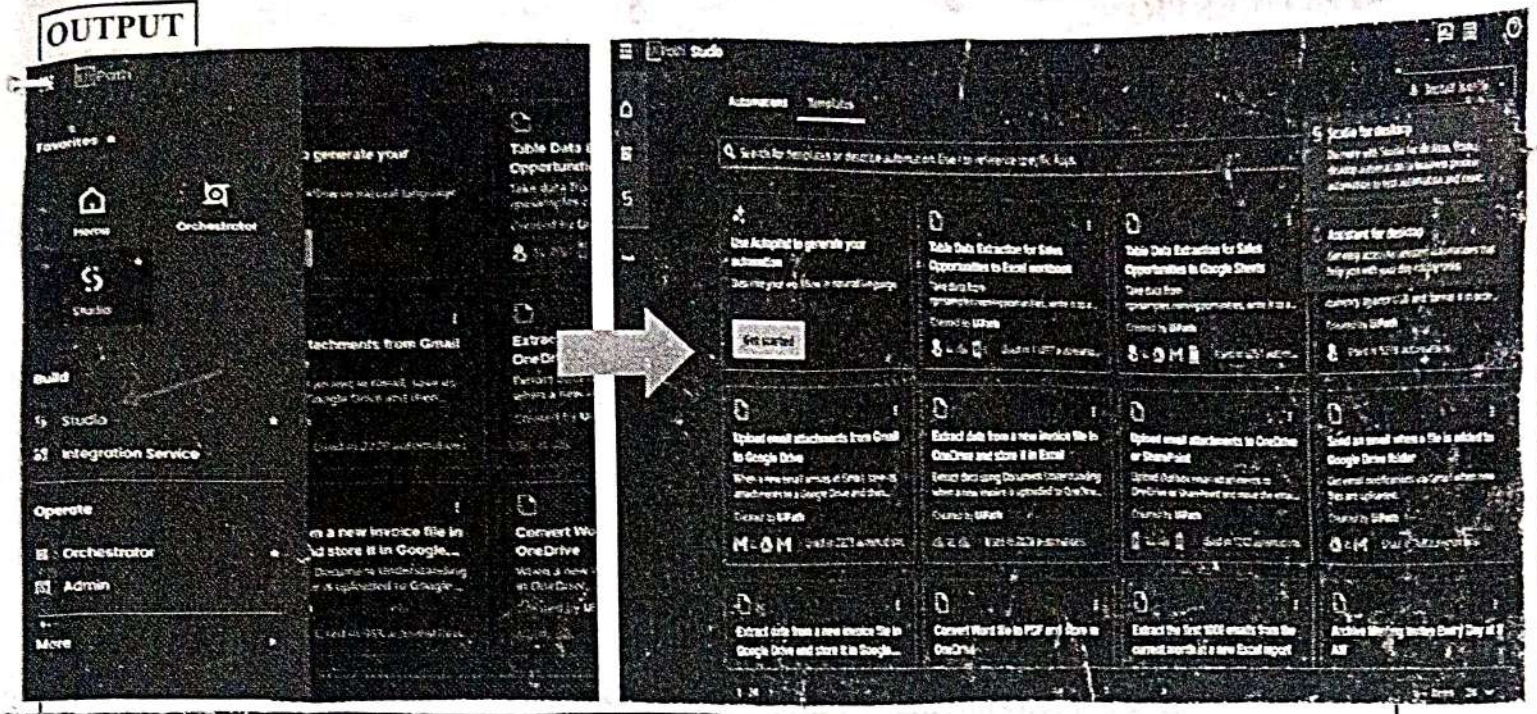
UiPath
Welcome to UiPath Automation Cloud
There are no organizations available for akankshajha2004@gmail.com. Please click the button below to create one.
Create Organization
To sign in with a different account: Click here

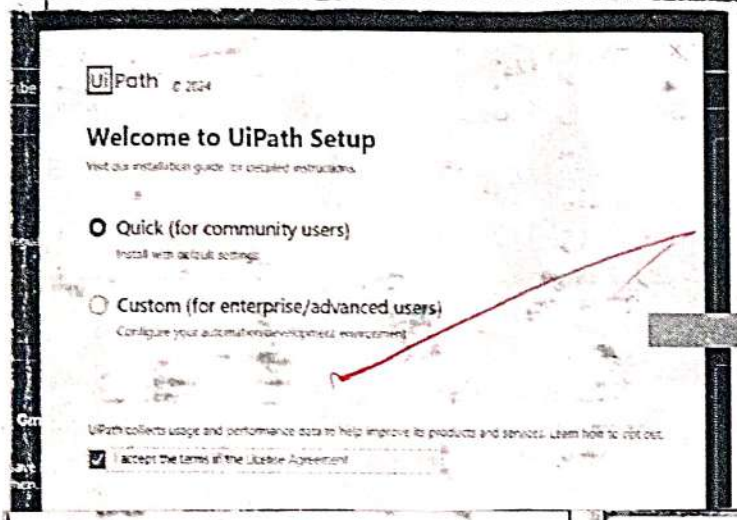
UiPath
Build great things with us.
Tell us a bit about yourself
Display name *
Country/Region *
India
State/Region *
Telangana
Send me information about UiPath products, events, and promotions. See Privacy Policy
Next

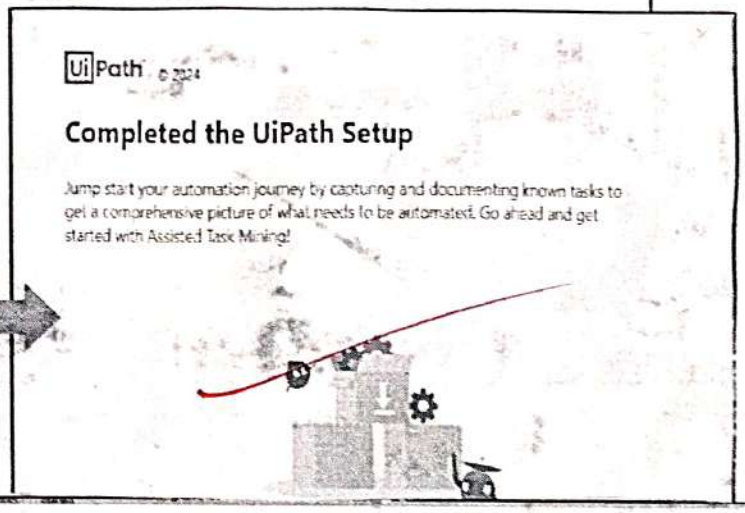
UiPath
Build great things with us.
Create your cloud organization
Your organization is an Automation Cloud workspace where you can invite, manage, and collaborate with other members of your team or company
Cloud Organization Name *
CMR Institute of Technology
Create Organization
Back
English
Terms
Privacy


UiPath Automation Cloud
Search marketplace and documentation
Good evening,
Agentic automation: A new path forward
A new era for automation combines agents, robots, AI, and people to tackle even the longest, most complex processes end to end.
Read the blog
Orchestrator services
DefaultTenant
Start from popular templates
Notify me on Slack when a Gmail em...
Table Data Extraction for Sales...
Forward Outlook emails to another...
Boost your productivity effortlessly
Automate tasks online, on any operating system. No installs needed.
Start in Studio Web
Need to automate desktop apps and more advanced scenarios?
Download Studio Desktop
What's New
Your all-in-one admin panel for AI operations.
Release notes
Configure and preview the layout of your custom Integration Service activities.
How it works
Autopilot for Everyone is here. Because everyone deserves one
Release notes
Context Grounding is now generally available

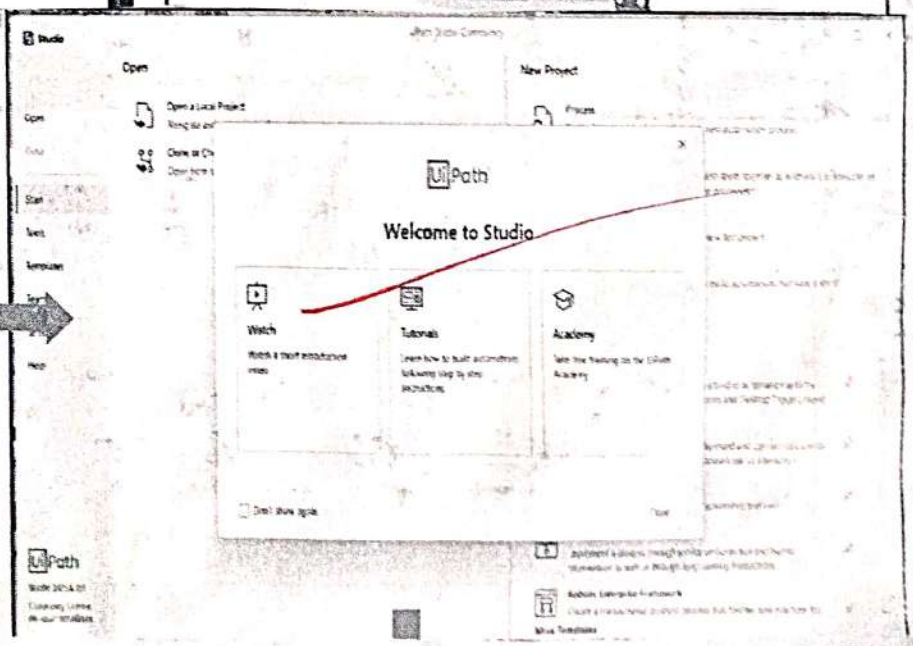
OUTPUT


Favorites
Home
Orchestrator
Studio
Build
Studio
Integration Service
Operate
Orchestrator
Admin
More
Automations
Templates


UiPath
Welcome to UiPath Setup
Quick (for community users)
Custom (for enterprise/advanced users)


UiPath
Completed the UiPath Setup
Jump start your automation journey by capturing and documenting known tasks to get a comprehensive picture of what needs to be automated. Go ahead and get started with Assisted Task Mining!

UiPath
Sign In to get started
Service URL
https://cloud.uipath.com
Sign in
Learn more


Open
New Project
UiPath
Welcome to Studio
Watch
Tutorials
Academy

VIVA QUESTIONS

1. Define RPA?

Ans. is a form of business process automation that is based on software robots (bots) or artifical intelligence (AI) agents.

2. Write any Five Applications of RPA?

Ans. 1. Data Transfers 2. processing payroll 3. Onboarding 4. System setup 5. Call Centre Operations

3. Difference between RPA & Automation?

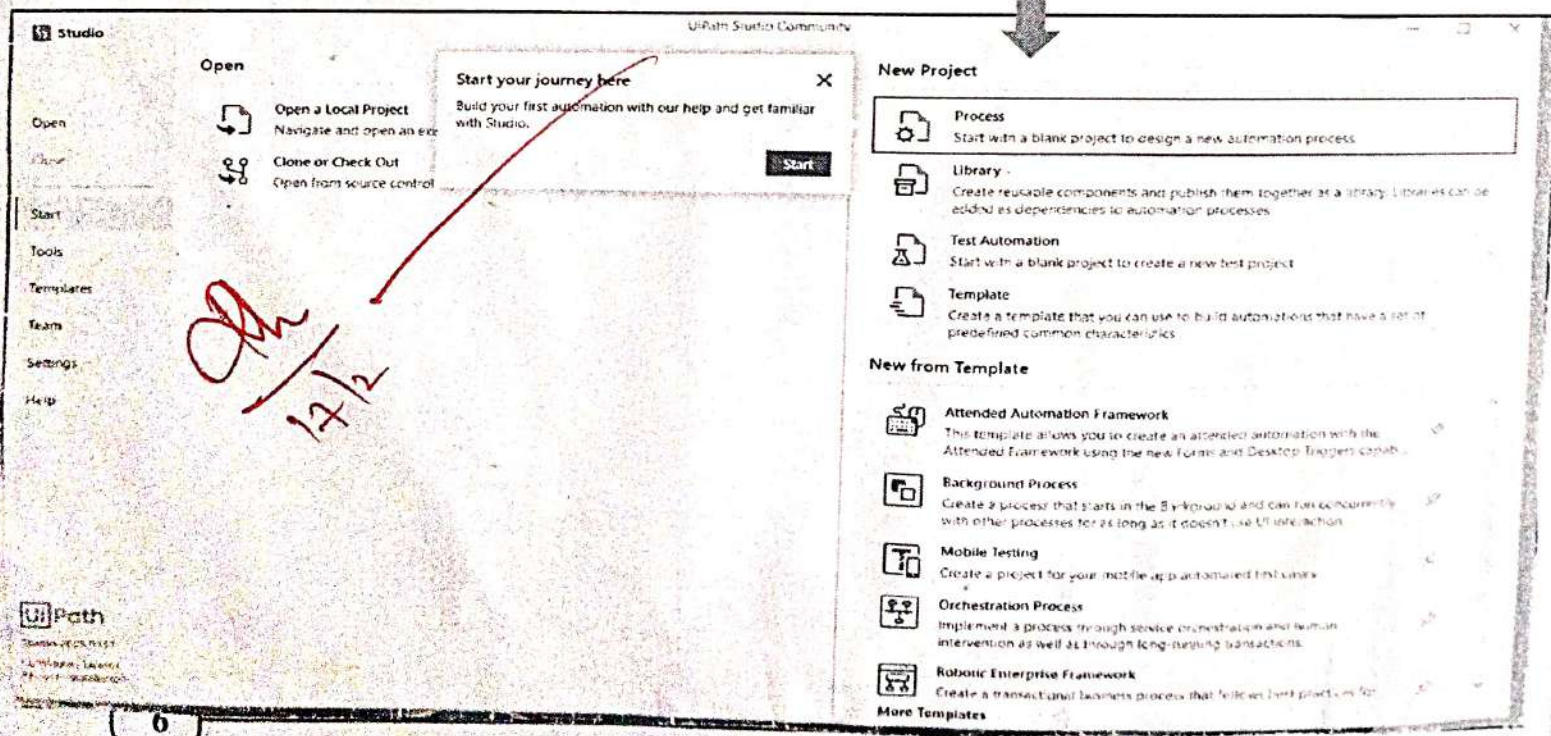
Ans. automating business process flow is better for tasks where people need to work together, make decisions and interact.

4. Differentiate between Automation Life Cycle & SDLC?

Ans. SDLC and automation life cycle are important parts of s/w engineering. SDLC has 6 phases and Automation life cycle is a subset of SDLC

5. Differentiate between UiPath and Automation Anywhere?

Ans. Uipath and automation are both leading RPA tools, but they have distinct features, approaches and strengths.



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By following these steps, you can effectively work with variables and data types in UiPath to create robust and efficient automation workflows

SOURCE CODE

Array(Integer)

[ ] Sequence

(x) Assign

Save to

{} ArrayData = {} New Integer() {1, 2, 3, 4}

For Each Current Number

In *

{} ArrayData

↳ Body

Message Box

{} Current Number

Array(string)

(x) Assign

Save to

{} Array String = {} New String() {"Hello", "world"}

For Each Current Text

In *

{} ArrayString

↳ Body

Message Box

{} CurrentText

And or Or (Boolean)

Sequence

Input Dialog
Dialog Title
{}
Input Label
{} "Enter A"
Value Entered
{} A

Input Dialog
Dialog Title
{}
Input Label
{} "Enter B"
Value Entered
{} B

If
Condition *
{} A and B [A or B]

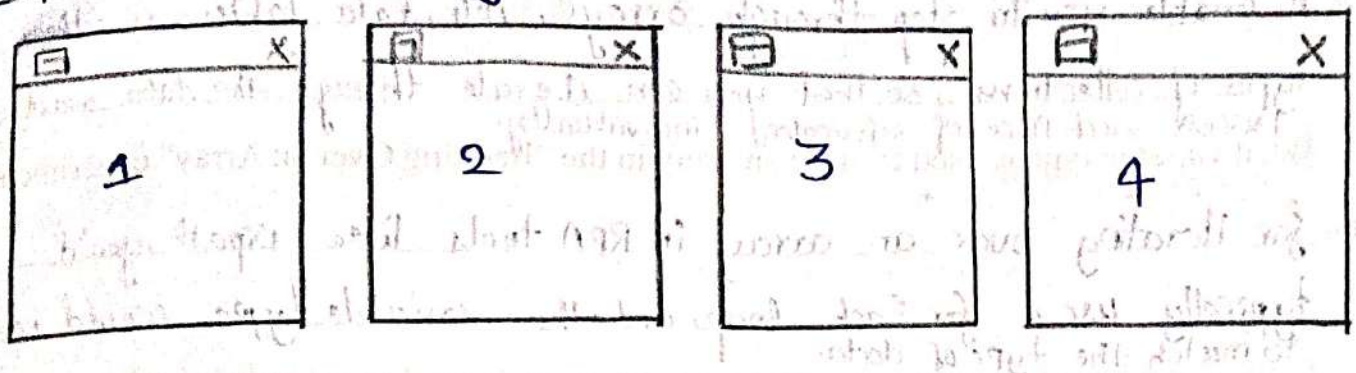
Then

message Box
Text *
{} True

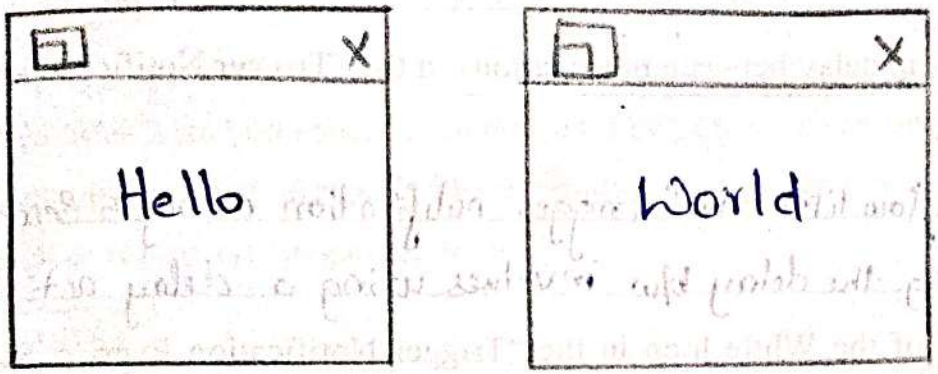
Message Box
Text *
{} False

OUTPUT

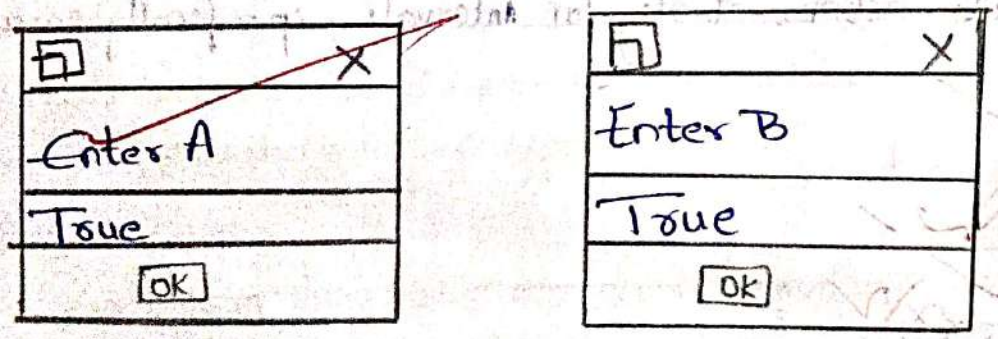
Output-1:- Array Integer

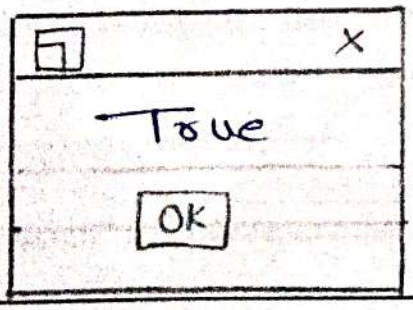


Output-2:- Array String



Output-3:- Boolean (AND Operation)





VIVA QUESTIONS

1. What is the primary purpose of a For Each activity in UiPath?

Ans. it enables you to step through arrays, lists, data tables or other types of collections, so that you can iterate through the data and process each piece of information individually.

2. What variable type is used to store an array in the "Iterating Over an Array" experiment?

Ans. for iterating over an array in RPA tools like Uipath, you'd typically use a for Each loop, and the variable type would need to match the type of data.

3. In the factorial calculation experiment, what activity is used to get user input?

Ans. the activity used is usually the input dialog activity.

4. How do you control the delay between notifications in the "Trigger Notification Every 5 Seconds" workflow?

Ans. In an RPA workflow like the "Trigger notification Every 5 Seconds" Scenario, controlling the delay b/w involves using a delay activity.

5. What is the purpose of the While loop in the "Trigger Notification Every 5 Seconds" experiment?

Ans. In the "Trigger Notification Every 5 Seconds", the while loop serves to repeatedly execute actions at regular intervals, specifically every 5 seconds.

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Assign the value of inputNumber to itself converted to Int32. Use the following expression:

makefileCopy code

inputNumber = Convert.ToInt32(input number)

Step-5: Flow Decision Activity

Drag and drop a "Flow Decision" activity onto the canvas.

Configure the condition to check whether the inputNumber is greater than 0.

For the "True" branch, add activities to display a message indicating the number is positive.

For the "False" branch, add another "Flow Decision" to check if the number is equal to 0.

For the "True" branch, display a message indicating the number is zero.

For the "False" branch, display a message indicating the number is negative.

Step-6: Display Messages

Use the "Message Box" activity to display messages for positive, zero, and negative numbers.

For positive numbers: "The number is positive."

For zero: "The number is zero."

For negative numbers: "The number is negative."

Step-7: Finalize the Workflow

Connect the activities in a logical sequence to form the complete workflow.

Save your workflow and run it to test the conditional state statements.

Example Work-flow (Simplified representation):

SOURCE CODE largest Among two Numbers ①

Sequence

Input Dialog

Dialog Title

{}

Input label

{} "Enter A"

Value Entered

{} A

Input Dialog
Dialog Title
{ }
Input label
{ } "Enter B"
Value Entered
B

If
Condition *
{ } A > B

Then

message Box
Text *
{ } "A is greater"

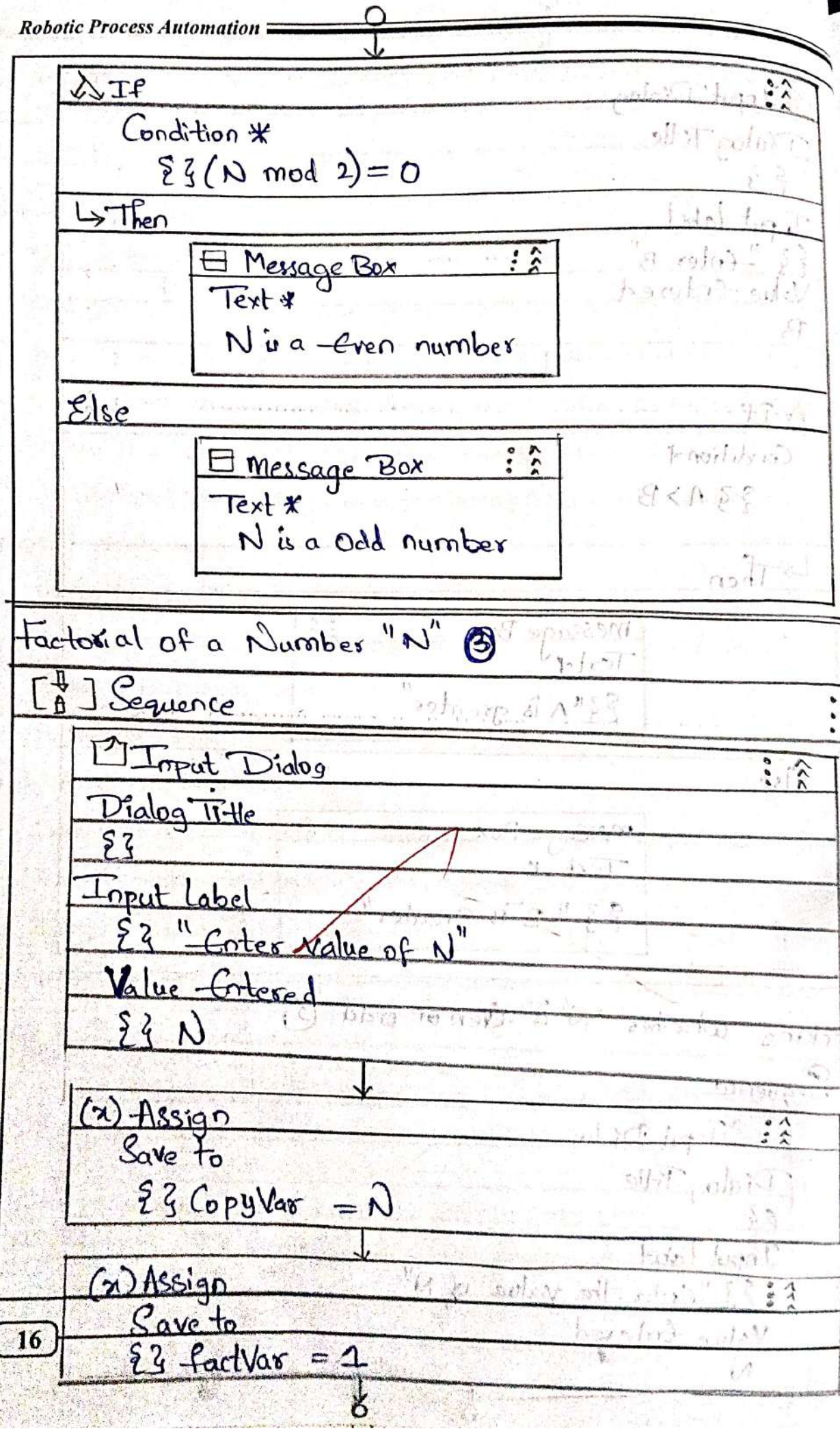
Else

message Box
Text *
{ } "B is greater"

Checking whether "N" is Even or odd (2)

Sequence

Input Dialog
Dialog Title
{ }
Input Label
{ } "Enter the value of N"
Value Entered
N


If
Condition *
{{(N mod 2)=0
Then
Message Box
Text *
N is a Even number
Else
Message Box
Text *
N is a Odd number
Factorial of a Number "N" 3
Sequence
Input Dialog
Dialog Title
{{
Input Label
{{ "Enter Value of N"
Value Entered
{{ N
Assign
Save to
{{ CopyVar = N
Assign
Save to
{{ factVar = 1

while

Condition *

{} N>0

Body.

(x) Assign

Save to

factVar = factVar * N

(x) Assign

Save to

N = N-1

message Box

Text *

{} "factorial of" + copy.Tostring + "is" + factvar.Tostring.

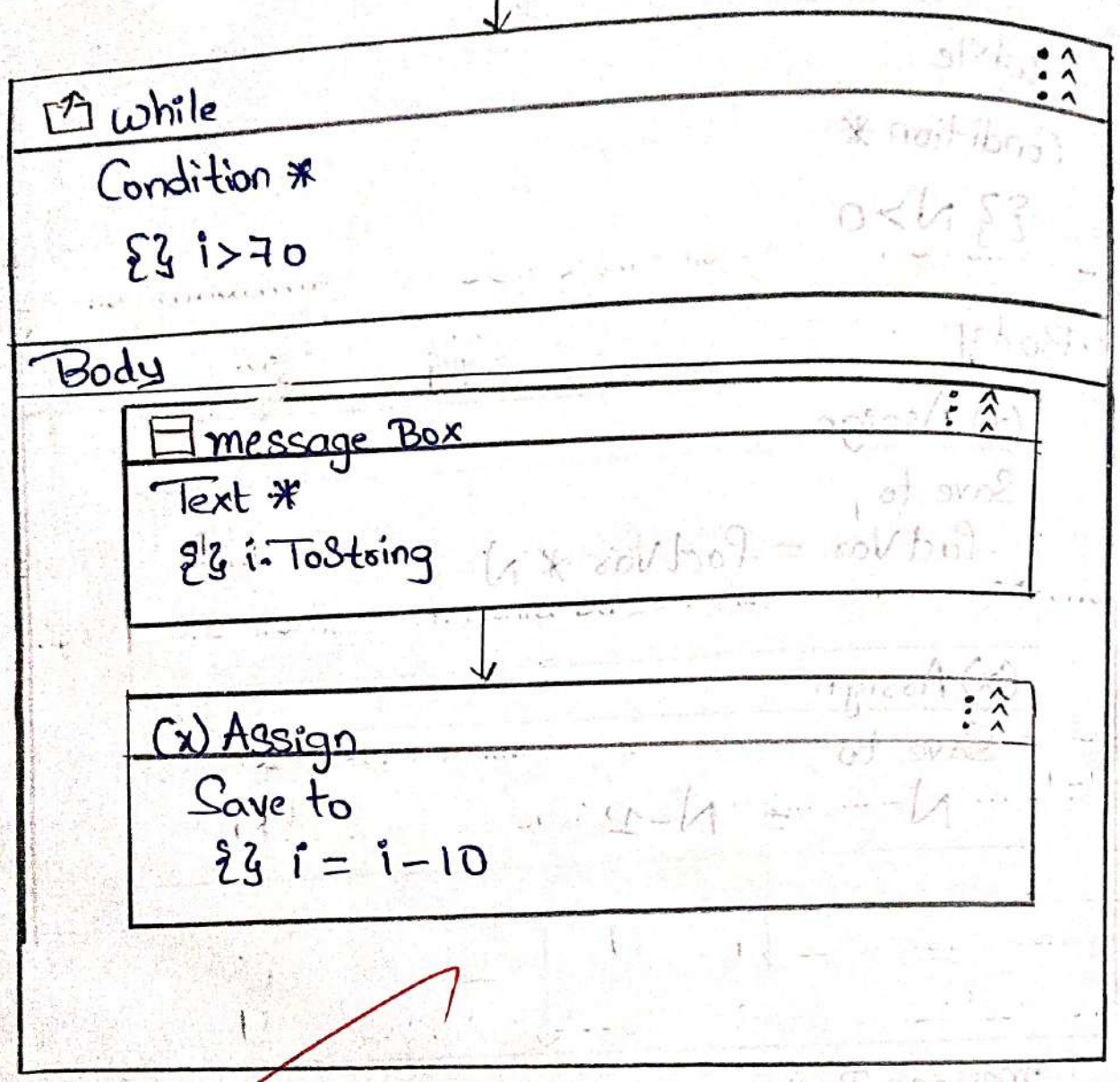
Implementation of while Statement (4)

[ ] Sequence

(x) Assign

Save to

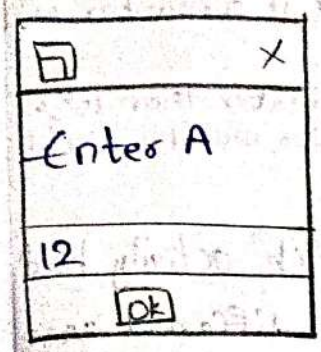
{} i = 100

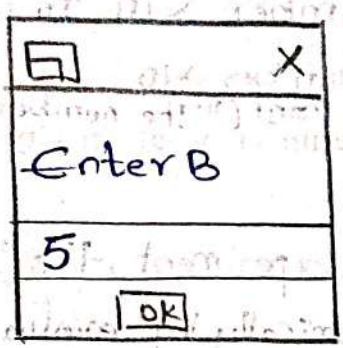

while
Condition *
{} i>70
Body
message Box
Text *
{} i.ToString
(x) Assign
Save to
{} i = i-10

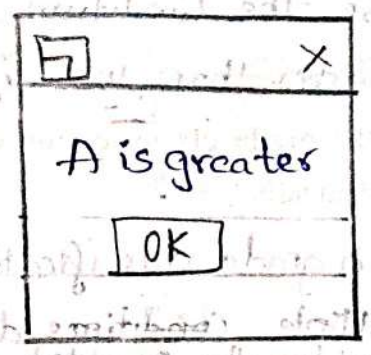
Fact

UTPUT

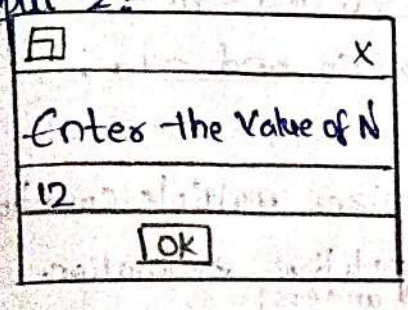
utput-1:-

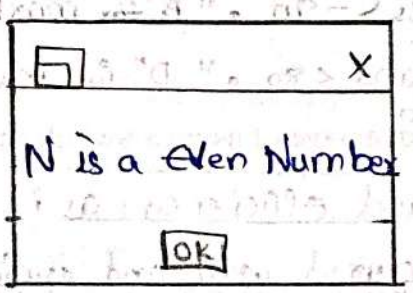




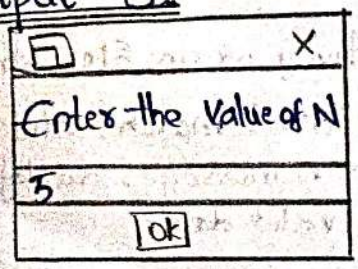


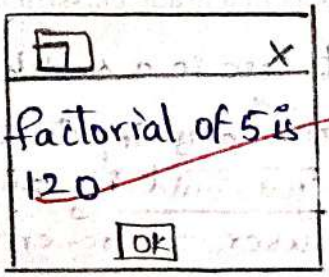
utput-2:-





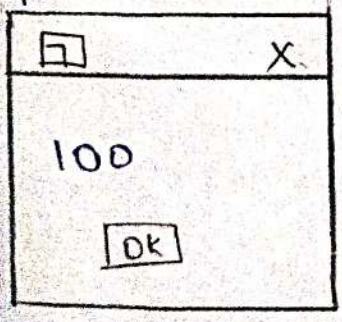
utput-3:-

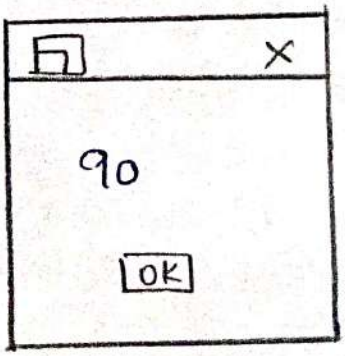


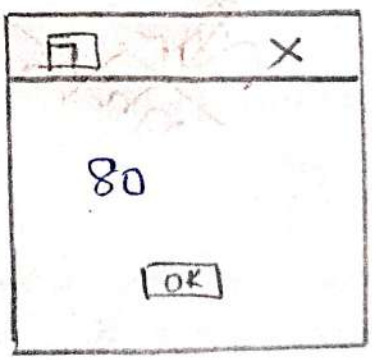


17/2

utput-4:-







VIVA QUESTIONS

1. What condition would you use in an If activity to check if a number is greater than 10?

Ans. Use the Condition number > 10 to check if a number is greater than 10. if number > 10
Print("The number is greater than 10").

2. In the grade classification experiment, what activity handles multiple conditions dynamically?

Ans. In a grade classification experiment, the "Switch" activity handles multiple conditions dynamically by evaluating different cases based on the provided expression or value.

3. What are the possible outputs for grade classification when using a Switch activity?

Ans. • "A" for marks >= 90 • "B" for marks >= 80 and < 90 • "C" for marks >= 70 and < 80 • "D" for marks >= 60 and < 70 • "F" for marks < 60

4. What is the main advantage of using a Switch activity over multiple if activities?

Ans. readability and efficiency, as it organizes multiple conditions in a clear, structured way and avoids repetitive evaluations, making the workflow easier to maintain and understand.

5. How do you handle invalid inputs in a grade classification workflow?

Ans. you can use a default case in a switch activity or an Else block in an If activity to catch any inputs that don't match valid conditions. for example, you could log an error message, display a warning or request the user to re-enter valid data.

17/7/25

SOURCE CODE

Scalar Variables

i) Take a input Dialog box ask user to Enter the value of "A", Similarly take another input Dialog box after 'A' ask user to Enter the value of 'B'.

ii) Take a Assign activity and assign A = A*A + B*B - 2*A*B

iii) Take a assign activity and assign B = A + 5 - B

iv) Take a message box in order to print the result onto the output Screen. Since the values of A and B are integers Convert then into String because message box accepts only string type data.

Text Manipulation

i) Take a assign activity. Take a variable Called name assign "RPA Lab" text to the name variable.

ii) Inorder Convert it into lowercase. Write "RPA Lab".ToLower(), Similarly to convert into uppercase use ToUpper() method.

iii) Take message box activity print name variable

Collections

i) Take a assign activity create a variable Called "List1"

ii) Goto variables → variables types → Browser for Types → Type system. collections - List. select list

iii) Write the data into list

iv) Append into List1 under activities select "Append items to collections" activity then write the data you want to append to list n.

v) Take a for Each activity iterate over the list take a message box print Each Element of the list.

Scalar variable output

Enter A value
3
OK

Enter B value
5
OK

message Box
Scalar of A is: 4
OK

message Box
Scalar of B is = 4
OK

Text Manipulation

message Box
RPA LAB
OK

id	Name	RollNo
1	A	A_1
2	B	A_2
3	C	A_3
4	D	A_4
5	E	A_5

OUTPUT

message Box Iot is avaliable [ok]
message Box Iot is false [ok]
message Box DBMS [ok]
message Box Devops [ok]

VIVA QUESTIONS

1. In the "Text Automation with Wikipedia and Google Docs" workflow, what activity is us to extract text from a webpage?

Ans. The "Get Text" or "Extract Structured Data" activity is used to extract text from a web page in an automation workflow.

2. What is the purpose of the Use Application/Browser activity in web automation workflow

Ans. It is used to open, interact with, and automate actions within a specified web application or browser window.

3. How can pagination be handled when extracting data from a website, as seen in t "Extracting Data and Writing to Excel" workflow?

Ans. It can be handled using the "Next page" button selector in the "Extract Data" activity allowing the automation to navigate through multiple pages and extract data until no more pages are available.

4. What variable type is commonly used to store extracted data from a webpage?

Ans. It is used the variable type to store extracted data from a web page is DataTable in automation workflows.

5. How do you write extracted data into an Excel sheet?

Ans. To write extracted data into an Excel sheet, use the "Write Range page" activity in Uipath, specifying the DataTable Variable and the target sheet name in an Excel file.

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11. **Deployment**

- Deploy the recorded workflow to the desired environment (e.g., UiPath Studio, Orchestrator) for execution

SOURCE CODE

Desktop application:

1) opening Notepad:

⇒ The automation script launches Notepad (Application path: Microsoft. Windows Notepad..)

⇒ No additional application arguments are Provided.

2) Typing into Notepad:

⇒ The automation Enlires the text "Welcome to RPA lab" in Notepad.

⇒ It Ensures the text field is before typing.

⇒ It Clicks inside Notepad, before Entering text.

⇒ The workflow verify that the text "RPA lab Desktop" automation is Correctly typed

Automation file saving:

1) Saving a file:

⇒ The automation triggers the save action using ctrl+s

⇒ It Ensures that the left mouse button is used for a single click.

2) Typing the file Name:

⇒ The script types "desktop record" into the file name field in the Save dialog.

⇒ It Ensures the field is Empty before typing.

⇒ It verifies that the text "desktop record" is correctly typed.

3) clicking save Button

⇒ The automation script clicks the save button to finalize saving the file.

Web Recording:

1) Open browser (Google):

⇒ The automation opens the google homepage using microsoft Edge

⇒ The URL specified is "https://www.google.com")

2) Type "gmail login" in Search Bar:

The bot types the text "gmail login" into a text area element google search bar.

⇒ It ensures the text is Entered Correctly before Proceeding

3) click on "gmail login" search result:

The bot clicks on the search result for "gmail login"

4) click on "Email - Gmail - google".

The bot selects the official gmail link from the Search results.

5) Get Text of Next Button:

The automation retrieves the text of the "Next Button" to Proceed with login.

6) click on "Next" Button:

The bot clicks the Next Button to Proceed with login

7) Enter Password

⇒ The bot types a Password into the Password input field.

⇒ The Password is securely Entered (mark with asterisk)

8) Click "Next" to Sign in

⇒ The bot clicks the "Next" Button again to Complete the login Process.

Use Application - Untitled Notepad

Application Path

Microsoft

Application Arguments

{}

↳ Do

Type into "Text Area Apj fqb"

Type this

{} "gmail login"

~~Empty field~~

Mouse Button

single line

{}

Click gmail login

gmail login

click type

single

Mouse Button

left

Click "Email - gmail - Google"

click type

single

Mouse Button

left.

OUTPUT

Get Text "Next"

Save to
Text String

Type into "INPUT

Type this
*****

Empty field
Single line

click before typing
Single

Click "Next"

Click type
Single

Mouse Button
left

VIVA QUESTIONS

1. In the "Extracting Text from PDFs" workflow, what activity is used to read text from a PDF?

Ans. We can Extract text from a pdf file by using the "Extract text from pdf" action.

2. What property filter is used in the "For Each File in Folder" activity to process only PDF files?

Ans. To process only pdf files in the "for Each file in folder" activity, use the filter "*.pdf" in the filter property.

3. List the use cases and importance of data manipulation?

Ans. accounting, finance, Computer programming, banking, sales, marketing real estate and etc.

4. What is importance of data manipulation for gathering?

Ans. it allows you to easily access the information that's critical to your specific business and goals.

5. What is process design document?

Ans. PDD serves as a foundational blueprint for automating business processes.

17/2

SOURCE CODE i) Screen Scraping

Browser

Browser URL

↳ "http s://www.wikipedia.org/"

↳ Do

Type into "input search input"

Type this
"RPA"
Enter field by Typing Before Typing
single line single

Click search

Click Type

Mouse Button

Get Text "this Article may require"

meet wikipedias

Save to

scr_txt

Write Text file

Text

scr_txt

Write to file name

"rpa.doc"

output

This article may require cleanup to meet wikipedias quality standards. Please help improve this article if you can.

ii) Data Scraping:

Edge All Product Books to Scrape - Sandbox

Browser URL

"https://books.toscrape.com/"

↳ Do

Extract table

★★★★★
A light in the . . . .

Write Range Work Book

"books to Scrape.xls"

"Sheet 1"

Scrape-books

OUTPUT

A	B	C	D	E	F
	Book name	Book Prize	Availability		
	4 light	$5.17	~~sto~~ In stock		
	Tipping	$13.99	"		
	Snow	$14.25	"		
	Sharp	$50.10	"		
	The require	$42.32	"		
	The arity	$13.25	"		
	The Comin	$12.72	"		

VIVA QUESTIONS

1. What is the difference between screen scraping and data scraping?

Ans. Screen scraping refers to extracting data from visual output of a screen, while data scraping involves extracting structure data from source like website (or) data base.

2. What are the scenarios where you would use screen scraping vs. data scraping?

Ans. Screen scraping is used when data is not easily accessible through API's (or) structured formats, while data scraping is used when extracting structured data from website (or) database easily.

3. What activities are used for screen scraping in UiPath?

Ans. In UiPath activities used for screen scraping include "Get Text", "Get OCR Text & Screen scraping" to extract data from screen's visual output.

4. How would you scrape text from an image in a desktop application.

Ans. To scrape text from an image in a desktop appl^n, you can use "OCR" activity in UiPath such as "Read OCR text" or "Read PDF with OCR"

5. What are the limitations of screen scraping techniques?

Ans. Reliance on UI layout, potential in accuracies with dynamic (or) standard elements and Performance issues in case of complex graphics or low-quality images.

24/2

- Adjust the selector to include unique attributes that identify the element, avoiding properties that may change dynamically.
- Use wildcards (*) where necessary to handle dynamic attribute values.
- Remove unnecessary or volatile properties from the selector to improve stability.

4. **Validate Selector**

- After customizing the selector, click on the "Validate" button in UiExplorer to ensure that the selector correctly identifies the target element.
- Verify that the selector is unique and does not match unintended elements on the screen.

5. **Update Selector in Activity Properties**

- Open the activity (e.g., Click, Type Into) that interacts with the target element.
- In the properties pane of the activity, locate the "Selector" field.
- Paste the customized selector into the "Selector" field to replace the default selector.

6. **Test the Automation**

- Test the automation process to verify that the customized selector correctly identifies and interacts with the target element. Run the workflow and observe the behavior of the activities interacting with the element

SOURCE CODE

1. Browser URL
Initiates Web browser interaction
URL: " https://results.cmrithyderabad.edu.in "
Specifies the website to be opened for automation

2. Do(Sequence):
Encloses a series of activities to be Executed in Sequence order

3. click Button (Activity 1 → first instance clicking to the B.Tech.

simulates another mouse click on a button Element.

4. click Button (Activity) - Second Instance
simulates another mouse click on a bulton element
R22

5. click Button "B-Tech V Semester R22 (Activity)

6. Type into input (Activity):
Enter text into an input field on the web page.

Value = 22R01A05R1

Browser

CMRET result

Browser URL *

https://results.cmrithyderabad.edu.in

↳ Do

Click Button

filter All | BTech

Click type | Mouse Button

Single ✓ | left ✓

↓

Click Button

filter All | R22

Click type | Mouse Button

Single ✓ | Left ✓

↓

Click 'B.Tech v Semester R22(...

BTech v Semester R22

Click type | Mouse Button

Single ✓ | left ✓

↓

Type into "input"

HALLTICKET NUMBER

Thru this

22KO1A05K1

OUTPUT

results.cmrit hyderabad.edu.in

22R01A05R1

Credits	CGPA
20	8.50

10/3

VIVA QUESTIONS

1. What is a selector in UiPath?

Ans. Selector : xml string to identify a UI element.

2. Why are selectors important in UiPath automation?

Ans. Ensures reliable UI interaction

3. What are the key components of a selector?

Ans. Key Components are → tags,
→ attributes → Values → hierarchy.

4. What is the purpose of an anchor base in selectors?

Ans. Anchor base : makes selectors dynamic & robust.

5. What is Ui-Explorer, and how is it used?

Ans. UI-Explorer : tool to build and refine selectors.

10/3

- **Load Image**: Use the "Load Image" activity to load the image file from which you want to extract text.
- **OCR Text Recognition**: Use the "OCR Text Recognition" activity to extract text from the loaded image using OCR technology. Configure the OCR engine and other settings as per your requirement.
- **Assign Activity**: Use the "Assign" activity to manipulate the extracted text. For example, you can assign the text to a variable and then manipulate it using string manipulation functions or regular expressions.
- **Write Line**: Use the "Write Line" activity to output the manipulated text to the Output panel or a text file for verification.

5. **Configure Activities**

- Configure each activity with the necessary inputs and properties. For example:
- Specify the file path for the image in the "Load Image" activity.
- Choose the appropriate OCR engine and language in the "OCR Text Recognition" activity.
- Write the necessary manipulation code in the "Assign" activity to process the extracted text.

6. **Run the Workflow**

- Save your workflow and click on the "Run" button in UiPath Studio to execute the automation process. monitor the execution and verify that the text is extracted from the image and manipulated as expected

SOURCE CODE

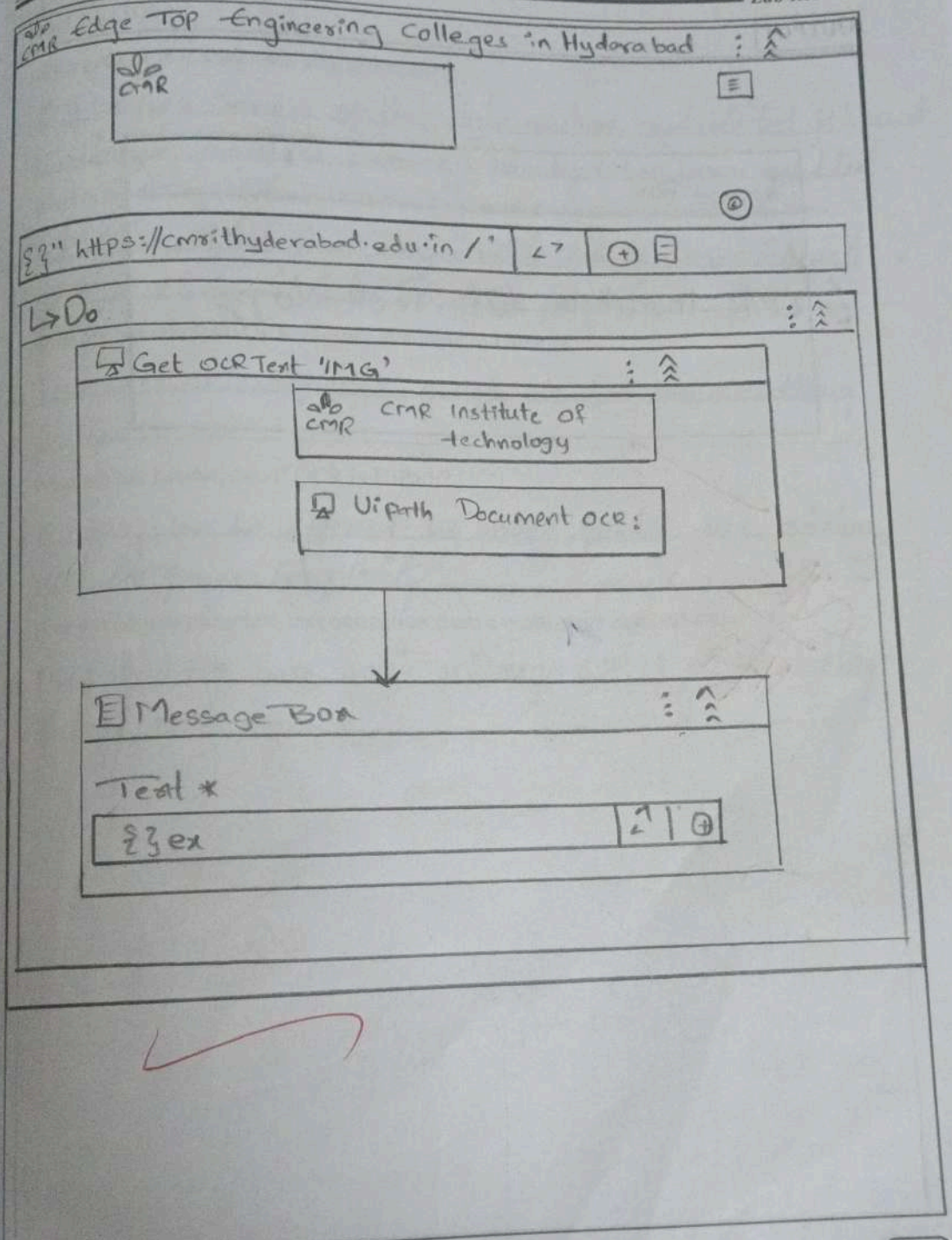
1. Browser URL (input):
"https://cmrithyderabad.edu.in" purpose:
Defines the starting point of the automation by specifying the target website.

2. Do:
function: A Container that organizers the sequence of activities to be Performed.

3. Get OCR Text "IMG (Activity)":
Type: optional optical character recognition (OCR) activity
IMG: Rspresents the image source for the OCR Process.

4. Message Box (Activity):
Text * {} ex
Displays a message box with the extracted text.

Ex: A variable holding the output from the OCR activity.


Edge Top Engineering Colleges in Hydarabad
CMR
"https://cmrithyderabad.edu.in/"
Do
Get OCR Text 'IMG'
CMR
CMR Institute of technology
Uipath Document OCR:
Message Box
Text *
ex

Edge Top Engineering Colleges in Hyderabad

CMR

{} " https://cmrithyderabad.edu.in/ "

Do

Get OCR Text 'IMG'

CMR Institute of technology

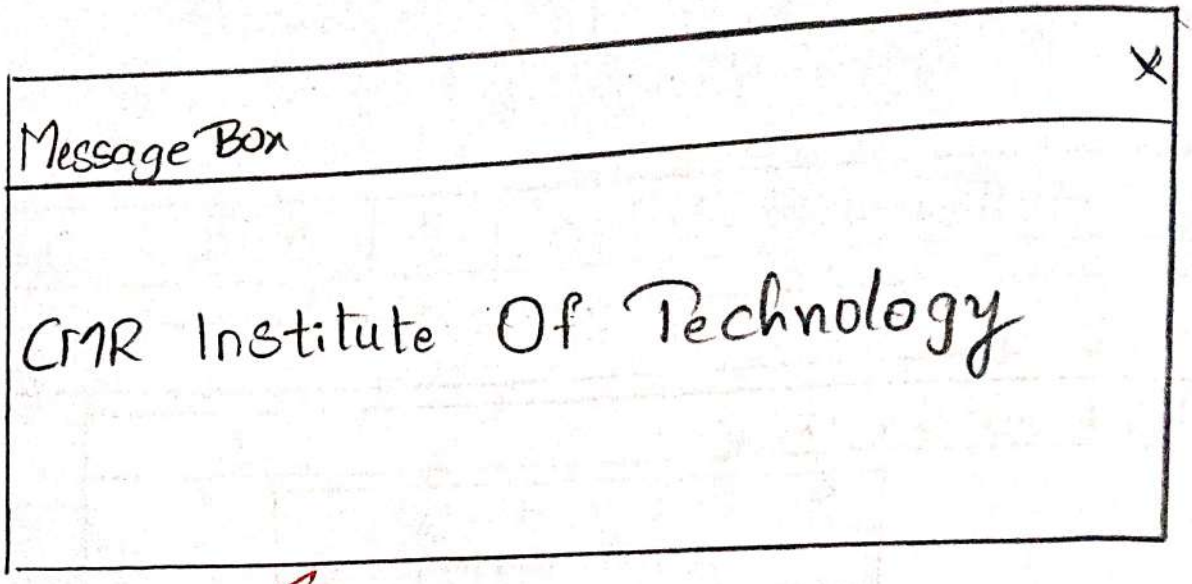
Uipath Document OCR:

Message Box

Text *

{} ex

OUTPUT



VIVA QUESTIONS

1. What is OCR in UiPath, and why is it used?

Ans. OCR converts images of text into machine-readable text. It's used to automate processes involving non-digital or image based text.

2. What is the difference between OCR-based automation and selector-based automation.

Ans. OCR: Extracts text from images while selectors are interacts with UI Elements based on their properties

3. What are the common OCR engines available in UiPath?

Ans. Tesseract, microsoft OCR, google cloud, vision OCR, Abbug fineReader OCR.

4. What are the limitations of OCR in UiPath?

Ans. Accuracy can be affected by image quality font variations) and language complexity.

5. How would you automate text extraction from a multi-page scanned document?

Ans. Use: Read PDF with "OCR" or "Image OCR" in a loop iterating through each page.

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1. Opens an Excel file: It opens the Excel file specified in the "Workbook path", within the "Excel Scope" activity.

2. Reads data from a sheet1: It reads the data from "Sheet 1" of the Excel file.

3. Converts data to a String: It Converts the data from the Excel sheet into a string using the "Output Data Table" activity.

4. Displays the data in a message box:
It displays the string Containing the Excel data in a message box.

Sequence

Read Range Workbook

{} "c:\users\student\contactdetails.xls +

{} "Sheet 1"

Output Data Table as Text

Data Table *

{} x

Message Box

Text *

{} y

OUTPUT

Message Box —X

Name	GmailID	Contact No
U.Sravani	Upputhalamsravani@gmail.com	9951827740
T.Pujitha	thatikondapujitha@gmail.com	9398754505

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OUTPUT

Message Box -X

Name	EmailID	Contact No
U.Sravani	Upputhalamsravani@gmail.com	9951827740
T.Pujitha	thatikondapujitha@gmail.com	9398754505

24/3

VIVA QUESTIONS

1. What activities are available in UiPath for working with Excel?

Ans. Read range, Write range, Append range, Excel application scope... etc.

2. What is a Data Table in UiPath?

Ans. A variable type that stores data in rows & columns, similar to a spreadsheet.

3. What are the common scenarios where you use Data Tables in automation?

Ans. Data extraction, data manipulation, data transfer, reporting.

4. What are the different ways to loop through a Data Table?

Ans. foreach row, forEach loop with Index, LINQ queries.

5. How do you perform data validation in Excel automation?

Ans. Using if conditions, trycatch blocks, checking cell values against criteria.

24/3

- **For Each**: Use a "For Each" activity to iterate through each retrieved email message.
- **Send SMTP Mail Message**: Use the "Send SMTP Mail Message" activity to send an ema
  Configure the activity with the necessary details such as sender, recipient, subject, a
  body.
- **Save Attachment**: Use the "Save Attachment" activity to save attachments from ema
  messages to a specified location on your computer.

5. **Configure Activities**

- Configure each activity with the necessary inputs and properties. For example:
- Specify the IMAP server settings and mailbox credentials in the "Get IMAP Mail Message
  activity.
- Specify the email details (sender, recipient, subject, body) in the "Send SMTP Mail Messag
  activity.
- Specify the folder path to save attachments in the "Save Attachment" activity.

6. **Run the Workflow**

- Save your workflow and click on the "Run" button in UiPath Studio to execute the emai
  automation process.
- Monitor the execution and verify that emails are retrieved, sent, and attachments are save
  as expected.

SOURCE CODE

Read Range WorkBook Activity:

Browser the file from the folder

Give the "Sheet Name"

Go to Properties in output panel give the value as Email data.

Output data table Activity:
pass the variable email data.

Create variable in properties
output panel give value as str emaildata.

Message box/write line:
pass the variable as str email data.

For Each data row:
Email data
Current row

Body:
Get row item activity
Current row
Values: Names
0
In properties Go to output panel give value as
Username.

Get row item activity
Current row
Name → "Email ID"
properties → o/p value → Email address

Assign:
var: mail ID (type: Array of string)
↳ New string ( ) { Email address }

Assign:
var: Mail Body → "Hi" + username + " " + environment.newline + "..." + environment.newline + "Regards" + Environment.newline + "Name"

SendEmail

var: mailID

var: mail Body.

ReadRange Workbook

{} "C:\users\student\Documents\workbook.c

{} "Sheet 1"

Output Data Table as Text

Data Table *

{} emaildata

MessageBox

Text *

{} Stremaildata

For Each Row in Data Table

Data Table *

{} Email data

item name

{} Current row

↳ Body

Get Row Item

Row *

{} Current Row

Column * ○ Number ◉ Name

{} "Names"

Value

{} usr

Get Row Item

Row *

{} Current Row

Column * ○ Number ◉ Name

{} "Email ID"

{} Email address

OUTPUT

(x) Assign

Save to: {} mailID = Value to Save: {} Email address

(x) Assign

Save to: {} mailBody = Value to Save: "Hi" + Username + "," + Environment.newline + "...." + Environment.newline + "Regards" + Environment.newline + "Name"

SendEmail

mailID

mailBody

Output:

- v ↷:
- * To: 2201020581 Automated mail: Sravani
- * To: 2201020582 automated mail: Sachana Sree

VIVA QUESTIONS

1. What is email automation in UiPath?

Ans. by enabling users to create automated workflows that send, receive and process emails based on specific triggers and rules.

2. What email activities are available in UiPath?

Ans. Sending, receiving and managing emails across various platforms like gmail, Outlook, Exchange, IBM Notes & through protocols like SMTP, IMAP & POP3.

3. What are the main email protocols supported by UiPath.

Ans. SMTP for sending emails and IMAP and POP3 for receiving emails.

4. What are the prerequisites for email automation using Outlook activities?

Ans. a Microsoft 365 or outlook.com account, access to platform like Power Automate or Uipath and potentially the relevant software installed on your machine.

5. How do you process emails from multiple accounts in UiPath?

Ans. use the "Get Outlook Mail Message" activity and configure it to access different email accounts.

7/4

- **Directory.GetFiles**: Use the "Directory.GetFiles" method to get a list of all PDF files in the specified folder. Store this list in an array variable.
- **For Each**: Use a "For Each" activity to iterate through each PDF file in the array.
- **Read PDF Text**: Use the "Read PDF Text" activity to read the text from each PDF file.
- **Close Application**: Use the "Close Application" activity to close the PDF reader application (e.g., Adobe Acrobat) after reading each PDF file.

5. **Configure Activities**

- Configure each activity with the necessary inputs and properties. For example:
- Specify the folder path variable in the "Assign" activity to define the location of your PDF files.
- Specify the array variable containing the list of PDF files in the "For Each" activity.
- Configure the "Read PDF Text" activity to read the text from each PDF file.

6. **Run the Workflow**

- Save your workflow and click on the "Run" button in UiPath Studio to execute the PDF automation process. monitor the execution and verify that the text is read from each PDF file, and the PDF reader application is closed after processing each file

SOURCE CODE

1) Create a folder and add a pdf file in that folder

2) for each file in folder (Activity):

Select the path where the folder with pdf is located.

3) Select or check the box with "include sub folders".

4) Now add a manage box in "Do" (Activity)
Type: Currentfile.fullName.

5) Add "Extract PDF Text" (Activity)
Type: Local Resource. FromPath (Currentfile.fullName)
Create a Variable here as "extracted Text"

6) Add a message box and type this Created Variable.

4) Now add a manage box in "Do" (Activity)
Type: Current file.fullName.

5) Add "Extract PDF Text" (Activity)
Type: Local Resource. FromPath (Current file. fullName)
Create a Variable here as "extracted Text"

6) Add a message box and type this Created Variable.

ForEach-file in-folder

ForEach

Currentfile

In folder *

{} "C:\Users\Student\Documents\" <> ⊕

☑ include Sub-folders

☐ Skip folders where access is denied

filter by (ex: *.xls) {} "*.pdf" <> ⊕

Order by Name Ascending first ✓

↳ Do

Message box

Text *

{} CurrentRow.fullName <> ⊕

↓

Extract PDF Text

PDF file *

{} LocalResource.FromPath <> ⊕

↓

Message Box

Text *

{} Extracted Text <> ⊕

OUTPUT

Message Box X

C:\users\student\Documents\Vipath\5R1\Week11\sravani\college-rules.pdf

OK

Message Box X

1. General Rules and Regulations

1.1 The principal of the College shall be the desciplinary in respect of the students in the college...

OK

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VIVA QUESTIONS

1. What activities are used to work with PDF files in UiPath?

Ans. Use Read PDF Text, Read PDF with OCR, Extract PDF Page Range.

2. How do you loop through all files in a folder in UiPath?

Ans. To loop through all files in a folder in Uipath "forEach".

3. How do you filter files to only process PDFs.

Ans. filter using "directoryGetfiles("folder-path", * PDF") to get only PDF files.

4. How do you extract only specific data from a PDF, such as invoice numbers or dates.

Ans. Use 'Read PDF Text' and 'Regular Expressions' to Extract Specific data like invoice.

5. How would you design the workflow to log the status of processed files.

Ans. Use "log manage" or write to Excel/CSV inside the loop to log each file status.

2/4

Use Excel File

Excel file *
{} "C:\Users\student\Downloads\

Reference as
Excel

☑ Save changes ☑ Create if not exists

Read formatting Same as Project ✓

☐ Template file

↳ Do

Set Range color

Color *
{} System.Drawing.Color.DarkOrange

Range *
{} "A1:A7"

sheet Name *
{} "Sheet1"

OUTPUT

	A	B	C
1	Name	Email	
2.	Shiva	22r01a0531@gmail.com	
3.	Anvesh	22r01a0527@gmail.com	
4.	Vaishnavi	22r01a0503@gmail.com	

22/4

VIVA QUESTIONS

1. What is the purpose of the excel application scope activity?

Ans. to open an Excel workbook and provide a controlled environment for interacting with it using other Excel-specific activities

2. How do you highlight a specific range in excel using UiPath.

Ans. To highlight a specific range in Excel using Uipath, you can use the "Set Range Color" activity.

3. How do you ensure compatibility with machines that have different versions of Excel.

Ans. To Ensure Excel workbook compatibility across different versions, use the Compatibility checker to identify potential issues

4. You need to change the background color of the header row in an Excel file. How would you do it?

Ans. Select Home > Font settings dialog launcher, or press Ctrl+Shift+F. In the fill tab, Under background color, pick the color you want.

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